PATENT



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Inventors:

Tie Jiang WU; Chien-Chang HUANG; Bo Ching JIANG; Yu-Wei TING;

**Chin-Ling HUANG** 

Title:

DEVICE AND METHOD FOR DETECTING ALIGNMENT OF DEEP

TRENCH CAPACITORS AND WORD LINES IN DRAM DEVICES

Date: July 3, 2003

Telephone:

Facsimile:

(310) 401-6180

(310) 401-6185

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# FEE DESCRIPTION TO ACCOMPANY LETTER TO PTO CONTAINING DEPOSIT ACCOUNT ORDER FOR STATUTORY FEES

This fee description is filed in duplicate, with respect to the request for a deposit account charge in the attached new case transmittal.

A. <u>X</u>	Filing Fee		\$	750
B. <u>X</u>	Recording assignment (37 C.F.R. 1.21(h)) (S RECORDATION FORM COVERSHEET.)	See attached	\$	40
c	Petition fee for filing by other than all the inve on behalf of the inventor where inventor refus cannot be reached (37 C.F.R. §§ 1.47 and 1	ed to sign or	\$	****
D	For processing an application with a specifical English language (37 C.F.R. §§ 1.52(d) and 2		\$	
E	Fee for international-type search report (37 C	.F.R. 1.21(e))	\$	
		Total fee charg	e\$	790_
Authori	zation is made to charge the amount of <u>US</u>	<b>5\$790</b> to Deposit A	Account No. 502447.	
	o Law Office	1		
1617 B	roadway, 3 <sup>rd</sup> Floor	Nelson A. Quinte	ero	
Santa Monica, California 90404 Attorney for Ap			licant	

Reg. No. 52,143

Customer No. 34,283

# 07/03/03

# 12. Fee Payment Being Made at This Time

Not En	closed		
[	No filing fee is to be paid at this time		
X Enclo	sed		
<u>_X</u>	Filing Fee	\$	750
<u>x</u>	Recording assignment (37 C.F.R. 1.21(h)) (See attached RECORDATION FORM COVERSHEET.)	\$	40
_	Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (37 C.F.R. §§ 1.47 and 1.17(i))	\$	
	For processing an application with a specification in a non-English language (37 C.F.R. §§ 1.52(d) and 1.17(k))	\$	
	Processing and retention fee (37 C.F.R. §§ 1.53(d) and 1.21(I))	\$	
	Fee for international-type search report (37 C.F.R. 1.21(e))	\$	
	Total Fees Enclose	ed \$	790
13. Method of P	ayment of Fees		
Atta	ched is a check in the amount of	\$	
	norization is made to charge the amount of to Deposit Account No. 502447.	\$	790
	to the Credit card as shown on the attached credit card authorization form PT-2038.	d informatio	n

# 14. Authorization to Charge Additional Fees

Authorization is made to charge any additional fees which may be required under 37 C.F.R. 1.16 (filing fees and the presentation of extra claims) and 37 C.F.R. 1.17 (application processing fees) to Deposit Account No. 502447.

## 15. Instruction as to Overpayment

X Please credit overpayment to Deposit Account No. 502447.

Please send correspondence to:

Quintero Law Office 1617 Broadway, 3<sup>rd</sup> Floor Santa Monica, California 90404 Telephone: (310) 401-6180 Facsimile: (310) 401-6185

Respectfully submitted,

Nelson A. Quintero Attorney for Applicant Reg. No. 52,143

Customer No. 34,283 (please enter this data)

P101259CP

Attorney Docket No. 10112431

**PATENT** 

Date: July 3, 2003

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## **Mail Stop Patent Application**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### **NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of

Inventor(s):

Tie Jiang WU; Chien-Chang HUANG; Bo Ching JIANG; Yu-Wei TING; Chin-Ling HUANG

For (title):

# DEVICE AND METHOD FOR DETECTING ALIGNMENT OF DEEP TRENCH CAPACITORS AND WORD LINES IN DRAM DEVICES

## 1. Type of Application

This new application is for a(n)				
<u>x</u> 	Regular utility (nonprovisional) Design Plant			
	Divisional Continuation Continuation-in-part (C-I-P).			

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

The new application being transmitted claims the benefit of prior U.S. application(s)
Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE
BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

# 3. Papers Enclosed

A. Required Application	for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. 1.153 (Design)
_11_	Page(s) of specification
4	Page(s) of claims
3	Sheet(s) of drawing
	The enclosed drawing(s) are photograph(s).
	The enclosed drawing(s) are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. §§ 1.84(a)(2) and 1.84(b).
	X Formal
	Informal
B. Other pa	pers enclosed
1 1	Page(s) of declaration (including power of attorney) Page(s) of abstract Other:
4. Addition	al Papers Enclosed
'	Amendment to claims
	Cancel in this application claims before calculating the filing fee. (At least one independent claim must be retained for filing purposes).
	<ul> <li>Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)</li> </ul>
	Preliminary Amendment
	Information Disclosure Statement (37 C.F.R. § 1.98)
	Form PTO-1449 (PTO/SB/08A and 08B)
	Citations
<del></del>	Authorization of Attorney(s) to Accept and Follow Instructions from Representative
<u>X</u>	Return Receipt Postcard in accordance with MPEP 503
	Verified Statement Claiming Small Entity Status (37 C.F.R. § 1.27)
	Other:

5.	Declaration or Oath (including power of attorney)
	X Enclosed, executed by
	X inventor(s).
	legal representative of inventor(s). 37 C.F.R. §§ 1.42 or 1.43.
	joint inventor or person showing a proprietary interest on behalf of inventor who refuses to sign or cannot be reached.
	This is the petition required by 37 C.F.R. § 1.47 and the statement required by 37 C.F.R. § 1.47 is also attached. See item 12 below for fee.
	Not Enclosed
	<ul> <li>Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of all the above named inventor(s).</li> </ul>
	<ul> <li>Showing that the filing is authorized.</li> <li>(Not required unless called into question. 37 C.F.R. 1.41(d))</li> </ul>
6.	Language
	X English
	Non-English
	The attached translation includes a statement that the translation is accurate.  37 C.F.R. § 1.52(d).
7.	Assignment
	X An assignment of the invention to: Nanya Technology Corporation
	<ul><li>is attached. A separate RECORDATION FORM COVERSHEET is also attached.</li></ul>
	will follow.
	This is a continuation division application and the assignment for the parent application was filed on
	Reel
	Frame

Filing Fee Calculation \$

## 8. Foreign Priority Claim (35 U.S.C. § 119(a)-(d)) and Certified Copy

Certified copy(ies) of application(s)

Taiwan	91123324	10/9/2002		
Country	Appln. No.	Filed		
Country	Appln. No.	Filed		
from which priority is claimed				
X is (are) attached.				
will follow.				

## 9. Request for International-Type Search (37 C.F.R. § 1.104(d))

Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

## 10. Assertion of Small Entity Status

Applicant hereby asserts status as a small entity under 37 C.F.R. § 1.27.

#### 11. Fee Calculation

# A. X Regular utility application

	Number filed	CLAIM	S AS FIL Number Extra	ED	Rate	Ва	sic Fee 37 C.F.R. § 1.16(a)
			Extra			\$	750
Total Claims (37	12	-20 =	0	x	18	\$	0
C.F.R. § 1.16(c)) Independent Claims (37 C.F.R. § 1.16(b))	2	-3 =	0	x	84	\$	0
Multiple Dependent Claim(s) (37 C.F.R. § 1.16(d))	0			+	280	\$	0
Amendment canceling extra claims is enclosed.							
Amendment deleting multiple-dependencies is enclosed.							
Fee for extra claims is not being paid at this time.							
			Fili	ng Fee	Calculation	n\$_	750
B Design ap	oplication (37 C	.F.R. 1.16		· <b>-</b>	0-11-4:	- <b>•</b>	
C Plant app	lication (37 C.F	r.R. 1.16(g		ng ree	Calculatio	ገ ֆ _	

**PATENT** 

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

.

In re the application of				
Inventors: Tie Jiang WU; Chien-Chang HUANG; Bo Ching JIANG; Yu-Wei TING Chin-Ling HUANG				
Title:	DEVICE AND METHOD FOR DETECTING ALIGNMENT OF DEEP TRENCH CAPACITORS AND WORD LINES IN DRAM DEVICES			
Date: July 3, 2003				
Commissioner for Pate P.O. Box 1450 Alexandria, VA 22313-				
	DESCRIPTION TO ACCO			
This fee description is in the attached new ca	filed in duplicate, with respective transmittal.	t to the request for	a deposit account charge	
A. X Filing Fee		\$	750	
	gnment (37 C.F.R. 1.21(h)) (Se N FORM COVERSHEET.)	e attached \$	40	
on behalf of the	filing by other than all the invent inventor where inventor refuse hed (37 C.F.R. §§ 1.47 and 1.1	d to sign or		
,				
E Fee for internal	ional-type search report (37 C.F	F.R. 1.21(e)) \$		
		Total fee charge \$	790	
Authorization is made	to charge the amount of <b>US</b>	790 to Deposit Apo	count No. 502447.	
	nia 90404 <i>F</i> 01-6180 F	Nelson A. Quintero Attorney for Applica Reg. No. 52,143 Customer No. 34,28		